

FACT SHEET

BIOZEN

BIOSENSOR DEVICE MOBILE MONITORING



BioZen is a mobile app that can be paired with external sensors to provides users with live data covering a range of biophysiological signals, including electroencephalogram (EEG), electromyography (EMG), galvanic skin response (GSR), electrocardiogram (ECG or EKG), respiratory rate and temperature.

BioZen can display several brain wave bands (Delta, Theta, Alpha, Beta and Gamma) separately, as well as combinations of bands that may indicate relevant cognitive states, such as meditation and attention. The BioZen meditation module represents psychological information with user-selectable graphics that change in response to user biometric data. Biometric data is recorded in real time.

Users can create notes to document and categorize their recording session. BioZen automatically generates graphical feedback from the recording sessions to allow users to monitor their progress over time.

This app is available for free download to Android devices. It was produced by the Web & Mobile Technology (WMT) Program Management Office, part of the Defense Health Agency (DHA) Solution Delivery Division. WMT provides web and mobile solutions to the DHA and other Department of Defense and Veterans Affairs organizations.

Screenshots



Key Benefits

- ▶ Displays several brain wave bands
- ▶ Records biometric data in real time
- ▶ Automatically generates graphical feedback from the recorded data
- ▶ Users can monitor their progress over time

Key Features

- ▶ BioZen features a meditation module that presents psychological information with graphics that change in response to the user's biometric data
- ▶ Displays brain wave bands like Delta, Theta, Alpha, Beta and Gamma
- ▶ Users can create notes to document and categorize their recording session
- ▶ Available for free download for Android devices

Note: Using BioZen requires compatible biosensor devices. These devices and BioZen are not designed or intended for psychological therapy or medical treatments. Contact SDD for a list of compatible devices at: dha.ncr.solution-deliv.mbx.stakeholder-engagement@mail.mil.